

***BOSE*® Model 550**

AM/FM Stereo Receiver

SCHEMATIC & PARTS LIST

FINAL

| SEMICONDUCTORS | | | Symbol | Description | Part Number |
|--------------------------|----------------------|--------------------|----------------------------------|---------------------------|-------------|
| Symbol | Description | Part Number | | | |
| TRANSISTORS | | | | | |
| Q1 | FET 2SK55(D) | 109879 | C4 | 1P(NPO) Ceramic | 109930 |
| Q2 | 2SC535(B) | 109880 | C5,11,12 | 2P(NPO) Ceramic | 109935 |
| Q3 | 2SC461(B) | 109881 | C7,43 | 6P(J) Ceramic | 114077 |
| Q4 | 2SD655(E) | 112300 | C8 | 15P(N470) Ceramic | 109934 |
| Q5 | FET 2SK49(F) | 112298 | C10 | 100P(J) Ceramic | 109939 |
| Q6 | 2SC460(B) | 112241 | C13 | 16P(N470) Ceramic | 114072 |
| Q7,11 | 2SC460(C) | 112138 | C14 | 10P(NPO) Ceramic | 109932 |
| Q8,901 | 2SC458(C) | 109885 | C15 | 30P(NPO) Ceramic | 109937 |
| Q9,10,451,452,457,458 | 2SA836(D) | 109887 | C16 | 15P(NPO) Ceramic | 109938 |
| Q453-456,459,460,902 | 2SC1335(D) | 109888 | C17,21-25,27,33,47, | 0.047(YZ) Ceramic | 114071 |
| Q461-464 | 2SC1845(E) | 112284 | C26 | 0.33/16V Electrolytic | 114073 |
| Q465,466 | 2SA1915(L) | 112285 | C28,36,49 | 0.01(YB) Ceramic | 113270 |
| Q467,468 | 2SC945(Q) | 112288 | C29,30 | 3.3/16V Electrolytic | 113297 |
| Q469,470 | 2SD415(Q) | 112286 | C31,34 | 1/16V Electrolytic | 114074 |
| Q471,472 | 2SB549(Q) | 112287 | C32 | 6.8/16V Electrolytic | 114075 |
| Q473-476 | 2SD587(R) | 112283 | C35 | 470P(YB) Ceramic | 113356 |
| Q477 | 2SC1384(R) | 112289 | C38 | 330P(J) Ceramic | 113304 |
| | | | C39 | 4.7/16V Electrolytic | 113301 |
| I.C.'s | | | C40,54,59,73,536 | 47/16V Electrolytic | 109962 |
| IC1 | HA11211 (FM IF) | 112114 | C41 | 1/25V(LL) Electrolytic | 112271 |
| IC2 | HA1156W (MPX) | 112294 | C42,58 | 180P(J) Ceramic | 114076 |
| IC3,4 | BA312 (PRE AMP) | 112295 | C44,517,518 | 22P(J) Ceramic | 113310 |
| IC451 | FS78 15C (Zenner IC) | 112290 | C50 | 15P(N2200) Ceramic | 114078 |
| IC452 | 4558D (OP IC) | 110369 | C51 | 350P(J) Polyester | 190956 |
| DIODES | | | C53,55,57,529,530 | 10/16V Electrolytic | 113303 |
| D1,5 | 1S2787 | 112301 | C56 | 470P(YB) Ceramic | 113356 |
| D2,3,4, | 1K261 | 112302 | C60 | 470P(J) Polyester | 109945 |
| D451-454 | 1SR17-200 | 112291 | C61 | .047(M) Polyester | 112222 |
| D455,456 | WO-6B | 109896 | C62 | .47/25V (LL) Electrolytic | 114079 |
| D457 | WZ090 (ZENNER) | 112292 | C63,64 | .22/25V (LL) Electrolytic | 114080 |
| D458,459 | WZ140 (ZENNER) | 112293 | C65-68 | .0056(YB) Ceramic | 100397-7 |
| CAPACITORS | | | C69,70 | .001(YB) Ceramic | 100397-3 |
| Tolerance Table | | | C71,72,75,76,87,88,95,96,477,478 | 4.7/35V (LL) Electrolytic | 114081 |
| (G) = 2% | (J) = 5% | (K) = 10% | C77,78 | 56P(J) Ceramic | 113295 |
| | | (M) = 20% | C79,80 | 470/6.3V Electrolytic | 114082 |
| | | (LL) = Low Leakage | C81,82 | 330P(J) Ceramic | 113304 |
| VCL-5 | Variable Capacitor | 112361 | C83,84 | .0012(J) Polyester | 112274 |
| C1,6,9,18,20,46,48,52,74 | 0.022(YZ) Ceramic | 114069 | C85,86 | .0043(J) Polyester | 112340 |
| C2 | 10P(N470) Ceramic | 109928 | C89 | 10/35V Electrolytic | 114083 |
| C3 | 33P(J) Ceramic | 113357 | C90 | 100/35V Electrolytic | 109969 |
| | | | C91,92 | 150P(J) Ceramic | 114084 |
| | | | C93,94 | .12(M) Polyester | 112342 |
| | | | C451,452,457,458,463-466 | .022(J) Polyester | 109972 |
| | | | C453,454 | .15(J) Polyester | 112197 |
| | | | C455,456 | .22(J) Polyester | 112198 |
| | | | C459,460 | .33(J) Polyester | 112199 |
| | | | C461,462 | .015(K) Polyester | 114105 |
| | | | C467,468,491,492,535 | .01(YZ) Ceramic | 109931 |
| | | | C469,470 | .0068(G) Polyester | 112202 |
| | | | C471,472 | .0012(G) Polyester | 112201 |
| | | | C473,474,489,490,511,512 | 330P(K) Ceramic | 109944 |

| Symbol | Description | Part Number | Symbol | Description | Part Number |
|--|-----------------------------|-------------|-----------------------------------|-------------------------|-------------|
| C475,476 | 27P(J) Ceramic | 113280 | R24 | 36K (J) Carbon | 114086 |
| C479,480 | 100/35V (LL) Ceramic | 114106 | R25,40,541,542 | 39K (J) Carbon | 113320 |
| C481,482,485,486 | 10Pf(J) Ceramic | 109964 | R27,501,502,505-508 | 12K (J) Carbon | 113346 |
| C483,484 | 100Pf(K) Ceramic | 109939 | R28,52,61,62,77,78,491,492 | 2.2K (J) Carbon | 107170-222 |
| C487,488 | 220/16V Electrolytic | 109954 | R33,46 | 33K (J) Carbon | 113322 |
| C493,494 | 22/35V (LL) Electrolytic | 114107 | R36,903,904 | 22K (J) Carbon | 113341 |
| C495,496 | 220/25V (LL) Electrolytic | 114108 | R38,523,524 | 4.7K (J) Carbon | 113377 |
| C501,502 | .27(K) Polyster | 112314 | R39,485,486 | 270K (J) Carbon | 114087 |
| C503,504 | .0012(K) Polyster | 112312 | R41,89,90,487-490,521,522,525,526 | 6.8K (J) Carbon | 113289 |
| C505,506 | 47/25V Electrolytic | 114109 | R43 | 560 (J) Carbon | 113352 |
| C507,508 | .047(YZ) Ceramic | 114071 | R44,53,527,528,902 | 5.6K (J) Carbon | 114088 |
| C509,510 | 150Pf(K) Ceramic | 114110 | R45 | 1.5K (J) Carbon | 113321 |
| C513 | 33/16V Electrolytic | 113412 | R48 | 220K (J) Carbon | 113318 |
| C515,516 | 470Pf(K) Ceramic | 114111 | R54 | 16K (J) Carbon | 114089 |
| C519,520 | 2Pf(D) Ceramic | 114112 | R55 | 4.7 (J) Carbon | 114090 |
| C521,522 | 100/50V Electrolytic | 114113 | R57,79,80,93,94,479,480,497,498 | 100K (J) Carbon | 113281 |
| C523,524,541,542 | .047(M) Polyster | 112222 | R59,60,67,68 | 2.7K (J) Carbon | 113340 |
| C525,526 | 100/25V Electrolytic | 114114 | R65,66 | 820 (J) Carbon | 113383 |
| C527/528 | .33(K) Polyster | 112315 | R75,76 | 82K (J) Carbon | 113350 |
| C531,532 | .0022(K) Polyster | 112313 | R81,82 | 330K (J) Carbon | 114091 |
| C533,534 | 470/16V Electrolytic | 113407 | R83,84 | 1.3K (J) Carbon | 114092 |
| C537 | 1000/35V Electrolytic | 114115 | R85,86 | 62K (J) Carbon | 113399 |
| C538 | 220/50V Electrolytic | 114116 | R87,88 | 750K (J) Carbon | 114093 |
| C539,540 | 6800/50V Electrolytic | 114117 | R97,98 | 5.1K (J) Carbon | 113375 |
| C543,544 | 1000/16V Electrolytic | 113364 | R451-454 | 1.2K (G) Carbon | 113386 |
| C549,550 | 47/50V Electrolytic | 114118 | R455,456 | 3.3K (G) Carbon | 113385 |
| C601 | .0068 Line By Pass | 112363 | R457,458 | 3.6K (G) Carbon | 113388 |
| C902,904 | .0018(J) Polyster | 109967 | R459,460 | 4.32K (F) Metal Film | 112203 |
| C903 | .0036(J) Polyster | 114126 | R461,462 | 13K (G) Carbon | 113389 |
| C905 | 1/25V (LL) Electrolytic | 114127 | R463,464 | 160K (G) Carbon | 113391 |
| | | | R465,466 | 82K (G) Carbon | 113390 |
| | | | R467,468 | 2.7K (G) Carbon | 113392 |
| | | | R469,470 | 2.4K (G) Carbon | 113393 |
| | | | R471,472 | 68K (G) Carbon | 113394 |
| | | | R473,474 | 750 (G) Carbon | 113397 |
| | | | R475,476 | 510 (G) Carbon | 113396 |
| | | | R477,478 | 1K (G) Carbon | 113395 |
| | | | R493,494 | 110 (J) Carbon | 114119 |
| | | | R495,496,906 | 1.2K (J) Carbon | 113323 |
| | | | R499,500 | 2.2 (1W J) Metal Film | 114120 |
| | | | R503,504,511,512,562 | 8.2K (J) Carbon | 113379 |
| | | | R509,510 | 24K (J) Carbon | 113380 |
| | | | R519 | 4.7K (1W K) Metal Oxide | 112317 |
| | | | R529,530,533,534 | 180 (1W J) Metal Oxide | 112320 |
| | | | R531,532 | 10 (J) Carbon | 113351 |
| | | | R535-538 | .47 (5W J) Cement | 112323 |
| | | | R539,540 | 22 (2W K) Metal Oxide | 112226 |
| | | | R545,546 | 9.1K (J) Carbon | 114123 |
| | | | R553,554 | 390K (J) Carbon | 113382 |
| | | | R555,556 | 3.3K (1W K) Metal Oxide | 112319 |
| | | | R557,558 | 150 (J) Fuse Resistor | 112318 |
| | | | R559,560 | 330 (1W J) Metal Oxide | 112321 |
| | | | R561 | 47 (1/2W J) Carbon | 113251 |
| | | | R563,564 | 82 (2W J) Metal Oxide | 112322 |
| | | | R565 | 18 (J) Carbon | 114122 |
| | | | R566-570 | 220 (J) Carbon | 113256 |
| | | | R571 | 27K (J) Carbon | 113286 |
| | | | R601 | 3.3M (1/2W K) Solid | 110888 |
| | | | R901 | 22K (J) Carbon | 113341 |
| | | | R907 | 680K (J) Carbon | 114101 |
| CHOKES, COILS, FILTERS, TRIMMERS | | | | | |
| CF1,CF2 | Ceramic Filter 10.7MS2 (GY) | 112335 | | | |
| L1 | Choke Coil 2.2 MH | 112184 | | | |
| L2 | FM Osc Coil | 112130 | | | |
| L3 | Choke Coil 18uH (J) | 112238 | | | |
| L4 | Choke Coil 3.9 MH (K) | 112338 | | | |
| L5 | AM Osc Coil | 109907 | | | |
| L451,452 | Choke Coil 2uH | 112141 | | | |
| LPF1,LPF2 | Low Pass Filter | 112337 | | | |
| T1 | FM Ant Coil | 112128 | | | |
| T2 | FM RF Coil | 112297 | | | |
| T3 | FM IFT | 112133 | | | |
| T4 | FM IFT | 112331 | | | |
| T5 | FM IFT | 112332 | | | |
| T6 | AM IFT | 112334 | | | |
| T7 | Ber Ant | 112327 | | | |
| T8 | AM IFT | 112333 | | | |
| T601 | Burn Coil | 109860 | | | |
| TC3 | Trimmer Cap 6P | 109910 | | | |
| TC5 | Trimmer Cap 8P | 112339 | | | |
| RESISTORS | | | | | |
| Tolerance Table | | | | | |
| (G) = 2% (J) = 5% (K) = 10% (M) = 20% | | | | | |
| Unless otherwise stated, all resistors are 1/4 watt. | | | | | |
| Semi-Fixed | | | | | |
| VR1 | 5K | 112343 | | | |
| VR2 | 20K | 112247 | | | |
| VR451,452 | 3K | 112324 | | | |
| Potentiometers | | | | | |
| VR3,4 | 250K(B) Volume | 112329 | | | |
| VR5 | 250K(G) Volume | 112330 | | | |
| VR453-456 | 25K(B) Volume | 112310 | | | |
| Fixed | | | | | |
| R1,37,549,550 | 1M (J) Carbon | 113282 | | | |
| R2,7,12,17,58,71 | 22 (J) Carbon | 113284 | | | |
| R3 | 220 (J) Carbon | 113349 | | | |
| R4,13,49,51,63,64 | 3.3K (J) Carbon | 107157-332 | | | |
| R5 | 18K (J) Carbon | 113367 | | | |
| R6,14,26,31,42,56,481,482,547,548,908 | 1K (J) Carbon | 113238 | | | |
| R8,35,91,95,96,543,544,909,19,21,32,517,518,905 | 15K (J) Carbon | 113347 | | | |
| R10,551,552 | 10K (J) Carbon | 113288 | | | |
| R11,47 | 3.9K (J) Carbon | 113354 | | | |
| R15,29 | 100 (J) Carbon | 113285 | | | |
| R16,20,30,50 | 47K (J) Carbon | 113343 | | | |
| R18,515,516 | 330 (J) Carbon | 113290 | | | |
| R22,72,483,484 | 1.8K (J) Carbon | 113345 | | | |
| R23,513,514 | 150K (J) Carbon | 113283 | | | |
| | 68K (J) Carbon | 114085 | | | |
| MISCELLANEOUS | | | | | |
| METERS | | | | | |
| M601 | Tuning Meter | 112173 | | | |
| M602 | Signal Meter | 112172 | | | |
| LAMPS | | | | | |
| PL451-456 | 65mA/6.3V | 112126 | | | |
| PL457,458 | 150mA/6.3V | 112296 | | | |
| PL459-463 | 200mA/6.3V | 109856 | | | |
| PL601 | 65mA/6.3V | 112306 | | | |
| SWITCHES | | | | | |
| SW1 | Push Switch | 112326 | | | |
| SW2 | Power Switch | 112303 | | | |
| SW451,452 | Slide Switch | 112176 | | | |
| SW453 | Push Switch | 112308 | | | |
| | 8P Jack | 112328 | | | |
| | Headphone Jack | 109870 | | | |
| | Antenna Terminal | 112362 | | | |
| | F Type Terminal | 114125 | | | |
| | Output Terminal | 112309 | | | |
| | AC Cord | 112304 | | | |
| | AC Outlet | 109866 | | | |
| | Fuse Holder | 112159 | | | |
| | Fuse Holder | 112366 | | | |
| | Lamp Holder | 112165 | | | |
| | PCB Holder | 112325 | | | |
| | Ferrite Bead | 109918 | | | |
| | Shield Plate (A) | 114094 | | | |
| | Shield Plate (B) | 109912 | | | |

